

Voertman's Scraper code

```
# Class to fill out textbook search form for Voertman's
# Use the following command to call this from PHP where VALUE is <option value="x">:
#     scrapy crawl voertmans -a departmentChoice=VALUE -a courseChoice=VALUE -a
#     sectionChoice=VALUE
# For example, this is for UNT, FALL 2015, ACCT, 2010, ALL
#     e.g. scrapy crawl voertmans -a departmentChoice=198 -a courseChoice=2010 -a
#     sectionChoice=41334
# Author: Jacob Cole
```

```
class VoertmansSpider(scrapy.Spider):
    name = "voertmans"
    allowed_domains = ["voertmans.textbooktech.com"]
    start_urls = (
        "http://voertmans.textbooktech.com/textbook",
    )

    def __init__(self, departmentChoice, courseChoice, sectionChoice):
        self.departmentChoice = departmentChoice
        self.courseChoice = courseChoice
        self.sectionChoice = sectionChoice

    def convertToScrapyObject(self, source):
        sou2 = source.encode('ascii','ignore')
        hxs = HtmlXPathSelector(text=sou2)
        return hxs

    def submitForm(self, response):
        driver = webdriver.Remote("http://localhost:4444/wd/hub",
        webdriver.DesiredCapabilities.HTMLUNITWITHJS)
        driver.get(response.url)

        #select UNT from dropdown
        schoolOption =
driver.find_element_by_xpath("//select[@id='school_selection']/option[@value='6']")
        schoolOption.click()

        driver.implicitly_wait(5)#set to wait for 10 seconds for subsequent element's
options to appear

        #select term from dropdown
        termOption =
driver.find_element_by_xpath("//select[@id='term_selection']/option[@value='25']")
```

```

termOption.click()

#select department from dropdown
departmentOption = driver.find_element_by_xpath(
    "//select[@id='department_selection']/option[@value='" +
self.departmentChoice + "']"
)
departmentOption.click()

#select course from dropdown
courseOption = driver.find_element_by_xpath(
    "//select[@id='course_selection']/option[@value='" + self.courseChoice +
"]"
)
courseOption.click()

#select section from dropdown
sectionOption = driver.find_element_by_xpath(
    "//select[@id='section_selection']/option[@value='" + self.sectionChoice +
"]"
)
sectionOption.click()

driver.find_element_by_id("search-button").click()

time.sleep(5)

selSource = driver.page_source
driver.quit()

return self.convertToScrapyObject(selSource)

def sendAsPost(self, bookName, bookChoice):
    name = bookName[0].rstrip("\r\n")
    new = bookChoice[0].rstrip("\r\n")
    rental = bookChoice[1].rstrip("\r\n")
    result = {'bookName': name, 'bookNew': new, 'bookRental': rental}
    jsonResult = json.dumps(result).rstrip("\r\n")
    print jsonResult

def parse(self, response):
    selector = self.submitForm(response)
    bookName = selector.select('//div[@class="book-name"]/text()').extract()

```

```
bookChoice = selector.select('//td[@class="input-box book-choices
a-right"]/select/option/text()).extract()
```

```
self.sendAsPost(bookName, bookChoice)
```

Unt Scraper code (inserts data into DB)

```
# Author: Jacob Cole
```

```
# Class for scraping all books from the UNT bookstore
```

```
# This is only ran to obtain book prices to insert into our database. It will not be ran every time a
book is selected.
```

```
# So debug statements are okay and helpful if the script fails.
```

```
class Book(Object):
    pass
```

```
class UntbookstoreSpider(scrapy.Spider):
    name = "untbookstore"
    allowed_domains = ["unt.bncollege.com"]
    start_urls = (
'http://unt.bncollege.com/webapp/wcs/stores/servlet/TBWizardView?catalogId=10001&langId=-1
&storeId=71237',
    )
```

```
globeI = 0
globeJ = 0
```

```
BookClass = {'department': "", 'course': "", 'section': ""}
```

```
def convertToScrapyObject(self, source):
    sou2 = source.encode('ascii','ignore')
    hxs = HtmlXPathSelector(text=sou2)
    return hxs
```

```
def refillOutForm(self):
    self.termDropDown =
self.driver.find_element_by_xpath("//div[@class='bncbSelectBox termHeader']")
    self.termDropDown.click()
```

```
self.termOption = self.driver.find_element_by_xpath('//li[@class="bncbOptionItem
termOption" and text()="FALL 2015"]')
    self.termOption.click()
```

```

        self.element_to_hover_over =
self.driver.find_element_by_xpath("//ul[@class='columnLabelLayout']/li[2]/input")
        self.hoverDept =
ActionChains(self.driver).move_to_element(self.element_to_hover_over)
        self.hoverDept.perform()
        self.element_to_hover_over.click()

        wait = WebDriverWait(self.driver, 10)
        self.deptToClick =
wait.until(EC.presence_of_element_located((By.XPATH,"//ul[@class='columnLabelLayout']/li[2]/
ul/li["+str(UntbookstoreSpider.globeJ+1)+"]"))))

        self.deptToClick.click()

        time.sleep(2)

        self.element_to_hover_over2 =
self.driver.find_element_by_xpath("//ul[@class='columnLabelLayout']/li[3]/input")
        self.hoverCourse =
ActionChains(self.driver).move_to_element(self.element_to_hover_over2)
        self.hoverCourse.perform()
        self.element_to_hover_over2.click()

        wait = WebDriverWait(self.driver, 10)
        self.courseToClick =
wait.until(EC.visibility_of_element_located((By.XPATH,"//ul[@class='columnLabelLayout']/li[3]/ul
/li["+str(UntbookstoreSpider.globeJ+1)+"]"))))

        self.courseToClick.click()

        time.sleep(2)

    def insertIntoParse(self):

        selector = self.convertToScrapyObject(self.driver.page_source)
        bookRequired = selector.select("//div[@class='book-list']")
        try:
            isbn = bookRequired.select('./ul/li[3]/text()').extract()
            # for some reason the indexes vary with having the isbn or not. possibly
            due to white space
        try:
            isbnB = isbn[1].strip()
        except ValueError:

```

```

        isbnB = isbn[0].strip()

        name =
bookRequired.select('.//h1[@id="skipNavigationToThisElement"]/a/text()').extract()
        nameB = name[0].lstrip()
        nameB2 = nameB.rstrip()
        priceNew = bookRequired.select('.//li[@class="selectableBook" and
contains(text(), "BUY NEW")]/span/text()').extract()
        priceNewB = priceNew[0].lstrip()
        priceNewB2 = priceNewB.strip()
        priceNewB3 = re.sub('[$]', "", priceNewB2)

        try:
            existingBook =
Book.Query.get(department=UntbookstoreSpider.BookClass['department'],
course=UntbookstoreSpider.BookClass['course'],
                section=UntbookstoreSpider.BookClass['section'])
        except QueryResourceDoesNotExist:
            book = Book(isbn=int(isbnB), name=nameB2,
priceNew=float(priceNewB3), department=UntbookstoreSpider.BookClass['department'],
                course=UntbookstoreSpider.BookClass['course'],
section=UntbookstoreSpider.BookClass['section'])
            book.save()

    except IndexError:
        print "Materials pending."

    def parse(self, response):
        self.driver = webdriver.Firefox()
        self.driver.get(response.url)

        self.termDropDown =
self.driver.find_element_by_xpath("//div[@class='bncbSelectBox termHeader']")
        self.termDropDown.click()

        self.termOption = self.driver.find_element_by_xpath('//li[@class="bncbOptionItem
termOption" and text()="FALL 2015"]')
        self.termOption.click()

        time.sleep(1)

        hxs = self.convertToScrapyObject(self.driver.page_source)

```

```

        departments =
hxs.select("//ul[@class='columnLabelLayout']/li[2]/ul/li//text()).extract()

        #fill out form with all combinations of choices
        i = 1
        UntbookstoreSpider.globeI = i
        while (i < len(departments)):
            depName = departments[i]
            UntbookstoreSpider.BookClass['department'] = depName
            if(i != 0):

self.driver.find_element_by_xpath("//ul[@class='columnLabelLayout']/li[2]/input").clear()
            #hover and click input element
            self.element_to_hover_over =
self.driver.find_element_by_xpath("//ul[@class='columnLabelLayout']/li[2]/input")
            self.hoverDept =
ActionChains(self.driver).move_to_element(self.element_to_hover_over)
            self.hoverDept.perform()
            self.element_to_hover_over.click()

            #click department
            wait = WebDriverWait(self.driver, 10)
            self.deptToClick =
wait.until(EC.presence_of_element_located((By.XPATH,"//ul[@class='columnLabelLayout']/li[2]/
ul/li["+str(i+1)+"]")))
            self.deptToClick.click()
            time.sleep(2)

            #obtain course list
            selector = self.convertToScrapyObject(self.driver.page_source)
            courses =
selector.select("//ul[@class='columnLabelLayout']/li[3]/ul/li//text()).extract()

            j = 0
            UntbookstoreSpider.globeJ = j
            while (j < len(courses)):
                courseName = courses[j]
                UntbookstoreSpider.BookClass['course'] = courseName
                if(j != 0):

self.driver.find_element_by_xpath("//ul[@class='columnLabelLayout']/li[3]/input").clear()
                self.element_to_hover_over2 =
self.driver.find_element_by_xpath("//ul[@class='columnLabelLayout']/li[3]/input")

```

```

        self.hoverCourse =
ActionChains(self.driver).move_to_element(self.element_to_hover_over2)
        self.hoverCourse.perform()
        self.element_to_hover_over2.click()

        wait = WebDriverWait(self.driver, 10)
        self.courseToClick =
wait.until(EC.visibility_of_element_located((By.XPATH, "//ul[@class='columnLabelLayout']/li[3]/ul
/li["+str(j+1)+"]"))))
        self.courseToClick.click()

        time.sleep(2)

        selector = self.convertToScrapyObject(self.driver.page_source)
        sections =
selector.select('//ul[@class="columnLabelLayout"]/li[4]/ul/li//text()).extract()
        k = 0
        while (k < len(sections)):
            sectionName = sections[k]
            UntbookstoreSpider.BookClass['section'] = sectionName
            if(k != 0):

self.driver.find_element_by_xpath("//ul[@class='columnLabelLayout']/li[4]/input[2]").clear()
        self.element_to_hover_over3 =
self.driver.find_element_by_xpath("//ul[@class='columnLabelLayout']/li[4]/input[2]")
        self.hoverSection =
ActionChains(self.driver).move_to_element(self.element_to_hover_over3)
        self.hoverSection.perform()
        self.element_to_hover_over3.click()

        wait = WebDriverWait(self.driver, 10)
        sectionToClick =
wait.until(EC.presence_of_element_located((By.XPATH, "//ul[@class='columnLabelLayout']/li[4]/
ul/li["+str(k+1)+"]"))))

        sectionToClick.click()

        time.sleep(2)

        try:
            submitClick =
self.driver.find_element_by_class_name("largeActiveBtn")
            submitClick.click()

```

```

        time.sleep(3)
        self.insertIntoParse()
        self.driver.back()
        time.sleep(5)
        self.refillOutForm()
    except NoSuchElementException:
        print "No book for this course available."

    k = k + 1

    j = j + 1
    UntbookstoreSpider.globeJ = j

    i = i + 1
    UntbookstoreSpider.globeI = i

self.driver.quit()

```

Form Process code

```

<?php
/*
 * This needs to be in the python directory to execute the scrapy command.*/
session_start();
//command to get voertmans book info
echo "deptNumber = " . $deptNumber . "courseNumber = " . $courseNumber;
$command = "/Library/Frameworks/Python.framework/Versions/2.7/bin/scrapy crawl
voertmans -a departmentChoice=" .
    $_SESSION["deptNumber"] . " -a courseChoice=" . $_SESSION["courseNumber"] . " -a
sectionChoice=41334";
exec($command, $result);

if(isset($result[0])){
    $resultData = json_decode($result[0], true);

    $_SESSION["bookNewVoert"] = $resultData["bookNew"];
    $_SESSION["bookRentalVoert"] = $resultData["bookRental"];
}
?>

```

Home page (search page)


```

<!DOCTYPE html>
<head>
    <link rel="stylesheet" type="text/css" href="css\stylesheet.css" />
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.2/jquery.min.js"></script>
    <script src="dropdownlist.js" type="text/javascript" ></script>
    <!-- links to the js file where the drop down list controls are kept -->
</head>
<body>
    <div id = "banner"> <!--this is the title on the page-->
        <div id = "bannertext"><h1>UNTextbookFinder</h1></div>
    </div>
    <div id = "left">        <!--actually the banner for the website-->
        <p><a href="aboutus/aboutus.html">About Us</a></p>
    </div>
    <div id = "right">
        <form id="bookform" name="bookform"
action="python/untextbookfinder/processForm.php" method="post">
            <div id = "select">
                <select name="department" class = "selectmenus"
                    form="bookform" onchange="javascript:
                        dropdownlist(this.options[this.selectedIndex].value);">

<!--options of departments list start here. indentation removed to shorten the text document>
<option value="" disabled="disabled" selected="selected">Select Category</option>
<option value="198|ACCT">ACCT - ACCOUNTING</option>
<option value="259|ADES">ADES - ART DESIGN</option>
<option value="250|AEAH">AEAH - ART EDUCATION ART HISTORY</option>
<option value="377|AECO">AECO - APPLIED ECONOMICS</option>
<option value="189|AGER">AGER - APPLIED GERANTOLOGY</option>
<option value="242|ANTH">ANTH - ANTHROPOLOGY</option>
<option value="309|ARBC">ARBC - ARABIC</option>
<option value="185|ARCH">ARCH - ARCHAEOLOGY</option>
<option value="236|ART">ART - ART</option>
<option value="275|ASTU">ASTU - ART STUDIO</option>
<option value="220|ATTD">ATTD - APPLIED TECHNOLOGY, TRAINING AND
DEVELOPMENT</option>
<option value="184|BCIS">BCIS - BUSINESS COMPUTER INFORMATION
SYSTEMS</option>
<option value="199|BEHV">BEHV - BEHAVIOR ANALYSIS</option>
<option value="234|BIOC">BIOC - BIOCHEMISTRY</option>
<option value="228|BIOL">BIOL - BIOLOGY</option>
<option value="249|BLAW">BLAW - BUSINESS LAW</option>

```

<option value="390|BMEN">BMEN - BIOMEDICAL ENGINEERING</option>
<option value="192|BUSI">BUSI - BUSINESS</option>
<option value="246|CBCM">CBCM - COMMERCIAL PHOTOGRAPHY</option>
<option value="221|CECS">CECS - COMPUTER EDUCATION AND COGNATIVE
SYSTEMS</option>
<option value="240|CHEM">CHEM - CHEMISTRY</option>
<option value="316|CHIN">CHIN - CHINESE</option>
<option value="183|CJUS">CJUS - CRIMINAL JUSTICE</option>
<option value="213|CMHT">CMHT - MERCHANDISING, HOSPITALITY, &
TOURISM</option>
<option value="237|CNET">CNET - CONSTRUCTION ENGINEERING
TECHNOLOGY</option>
<option value="258|COMM">COMM - COMMUNICATION STUDIES</option>
<option value="238|COUN">COUN - COUNSELING</option>
<option value="194|CSCE">CSCE - COMPUTER SCIENCE/COMPUTER
ENGINEERING</option>
<option value="200|DANC">DANC - DANCE</option>
<option value="271|DFST">DFST - DEVELOPMENT AND FAMILY STUDIES</option>
<option value="214|DRTL">DRTL - DIGITAL READING</option>
<option value="181|DSCI">DSCI - DECISION SCIENCES</option>
<option value="281|EADP">EADP - EMERGENCY ADMINISTRATION AND
PLANNING</option>
<option value="267|ECON">ECON - ECONOMICS</option>
<option value="226|EDAD">EDAD - EDUCATIONAL ADMINISTRATION AND
SUPERVISION</option>
<option value="225|EDBE">EDBE - BILINGUAL AND ESL EDUCATION</option>
<option value="229|EDCI">EDCI - EDUCATION CURRICULUM AND INSTRUCTION</option>
<option value="230|EDEC">EDEC - EDUCATION CURRICULUM AND
INSTRUCTION</option>
<option value="231|EDEE">EDEE - ELEMENTARY EDUCATION</option>
<option value="256|EDHE">EDHE - HIGHER EDUCATION</option>
<option value="269|EDLL">EDLL - LANGUAGE & LITERACY STUDIES</option>
<option value="262|EDME">EDME - MIDDLE SCHOOL EDUCATION</option>
<option value="223|EDRE">EDRE - READING</option>
<option value="224|EDSE">EDSE - SECONDARY EDUCATION</option>
<option value="270|EDSP">EDSP - SPECIAL EDUCATION</option>
<option value="376|EDUC">EDUC - EDUCATIONAL FOUNDATIONS</option>
<option value="182|EENG">EENG - ELECTRICAL ENGINEERING</option>
<option value="245|ELET">ELET - ELECTRONICS ENGINEERING TECHNOLOGY</option>
<option value="218|ENGL">ENGL - ENGLISH</option>
<option value="239|ENGR">ENGR - ENGINEERING TECHNOLOGY</option>
<option value="233|EPSY">EPSY - EDUCATIONAL PSYCHOLOGY</option>
<option value="251|FINA">FINA - FINANCE</option>

<option value="279|FREN">FREN - FRENCH</option>
 <option value="178|GEOG">GEOG - GEOGRAPHY</option>
 <option value="179|GEOL">GEOL - GEOLOGY</option>
 <option value="277|GERM">GERM - GERMAN</option>
 <option value="215|HFMD">HFMD - HOME FURNISHING</option>
 <option value="193|HIST">HIST - HISTORY</option>
 <option value="241|HLTH">HLTH - HEALTH PROMOTION</option>
 <option value="208|HMGT">HMGT - HOSPITALITY MANAGEMENT</option>
 <option value="263|HNRS">HNRS - HONORS</option>
 <option value="384|INFO">INFO - INFORMATION SCIENCES</option>
 <option value="261|INST">INST - INTERNATIONAL STUDIES</option>
 <option value="266|ITAL">ITAL - ITALIAN</option>
 <option value="273|JAPN">JAPN - JAPANESE</option>
 <option value="191|JOUR">JOUR - JOURNALISM</option>
 <option value="211|KINE">KINE - KINESOLOGY</option>
 <option value="175|LGAV">LGAV - AVIATION</option>
 <option value="272|LING">LING - LINGUISTICS</option>
 <option value="176|LSCM">LSCM - LOGISTICS AND SUPPLY CHAIN
 MANAGEMENT</option>
 <option value="222|LTEC">LTEC - LEARNING TECHNOLOGY</option>
 <option value="195|MATH">MATH - MATHEMATICS</option>
 <option value="204|MDSE">MDSE - MERCHANDISING</option>
 <option value="212|MEEN">MEEN - MECHANICAL AND ENERGY ENGINEERING</option>
 <option value="248|MEET">MEET - MECHANICAL ENGINEERING TECHNOLOGY</option>
 <option value="243|MFET">MFET - MANUFACTURING ENGINEERING
 TECHNOLOGY</option>
 <option value="180|MGMT">MGMT - MANAGEMENT</option>
 <option value="177|MKTG">MKTG - MARKETING</option>
 <option value="190|MSCI">MSCI - MANAGEMENT SCIENCE</option>
 <option value="391|MSET">MSET - MASTER'S ENGINEERING TECH</option>
 <option value="232|MTSE">MTSE - MATERIALS SCIENCE AND ENGINEERING</option>
 <option value="392|MUAC">MUAC - APPLIED PRIVATE MUSIC LESSONS</option>
 <option value="186|MUAG">MUAG - APPLIED MUSIC-PEDAGOGY, DICTION AND
 LITERATURE</option>
 <option value="385|MUAM">MUAM - APPLIED PRIVATE MUSIC</option>
 <option value="196|MUAS">MUAS - APPLIED PRIVATE MUSIC</option>
 <option value="203|MUCP">MUCP - MUSIC COMPOSITION</option>
 <option value="264|MUED">MUED - MUSIC/EDUCATION</option>
 <option value="219|MUEP">MUEP - MUSIC/ETHNOMUSICOLOGY</option>
 <option value="378|MUGC">MUGC - MUSIC/GENERAL</option>
 <option value="257|MUJS">MUJS - MUSIC, JAZZ STUDIES</option>
 <option value="202|MUMH">MUMH - MUSICOLOGY</option>
 <option value="205|MUTH">MUTH - MUSIC THEORY</option>

```

<option value="387|NCTM">NCTM - MATHEMATICS</option>
<option value="274|PACS">PACS - PUB AFFAIRS COMM SERV</option>
<option value="280|PADM">PADM - PUBLIC ADMINISTRATION</option>
<option value="252|PHED">PHED - PHYSICAL EDUCATION</option>
<option value="247|PHIL">PHIL - PHILOSOPHY</option>
<option value="227|PHYS">PHYS - PHYSICS</option>
<option value="254|PSCI">PSCI - POLITICAL SCIENCE</option>
<option value="210|PSYC">PSYC - PSYCHOLOGY</option>
<option value="282|REAL">REAL - REAL ESTATE</option>
<option value="209|RECR">RECR - RECREATION AND LEISURE STUDIES</option>
<option value="235|RHAB">RHAB - REHABILITATION STUDIES</option>
<option value="255|RMIN">RMIN - RISK MANAGEMENT AND INSURANCE</option>
<option value="216|RTVF">RTVF - RADIO, TELEVISION AND FILM</option>
<option value="265|RUSS">RUSS - RUSSIAN</option>
<option value="207|SLIS">SLIS - LIBRARY AND INFORMATION SCIENCES</option>
<option value="187|SOCL">SOCL - SOCIOLOGY</option>
<option value="278|SOWK">SOWK - SOCIAL WORK</option>
<option value="276|SPAN">SPAN - SPANISH</option>
<option value="217|SPHS">SPHS - SPEECH AND HEARING SCIENCES</option>
<option value="260|TECM">TECM - TECHNICAL COMMUNICATION</option>
<option value="201|THEA">THEA - THEATRE</option>
<option value="188|UCRS">UCRS - UNIVERSITY COURSES</option>
<option value="253|WMST">WMST - WOMEN'S STUDIES</option>
<!--options of departments list stops here.>

```

```

</select>
<td align="left" valign="middle">
<script type="text/javascript" language="JavaScript">
document.write('<select name="subcategory"><option
                        value="">Select
                        Sub-Category</option></select>')
</script>
<noscript>
<select name="subcategory" class="selectmenus"
                        id="subcategory">
<option value="">Select Sub-Category</option>
</select>
</noscript></td>
</tr>

<select class = "selectmenus" name = "section" form="bookform">
    <option value="" disabled="disabled"
                        selected="selected">Select</option>

```

```

                                <option value="ALL">ALL</option>
                            </select>
                        <input id="button" type = "submit">
                    </div>
                </form>
            </div>
        <div id = "footer">
        </div>
</body>

```

Result page

```

<?php
    session_start();
    include '../php/getUntData.php';
?>
<html>
<head>
    <link rel="stylesheet" type="text/css" href="../css/stylesheet.css" />
    <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.2/jquery.min.js"></script>
</head>
<body>
    <div id = "banner">
        <div id = "bannertext"><h1>UNTextbookFinder</h1></div>
    </div>
    <div id = "left">
        <p><a href="../index.html">Home</a></p>
        <p><a href="../aboutus/aboutus.html">About Us</a></p>
    </div>
    <div id = "right">
        <div id="bookinfo">
            <div id="generalinfo" class="bookstore">
                <h1>Info</h1>
                <p>

```

```

                    <?php
                    //check only book name. book name should always be
present if a book is available.

```

```

$deptArray = explode("|", $_POST["department"]);
$deptNumber = $deptArray[0];
$deptName = $deptArray[1];
$_SESSION["deptNumber"] = $deptNumber;
$_SESSION["courseNumber"] = $_POST["course"];
queryDataUnt($deptName, $_POST["course"]);

```

```

        if(isset($GLOBALS["name"])){
            if(isset($GLOBALS["name"]))
                echo "Name: " . $GLOBALS["name"];
            echo "<br/>";
            if(isset($GLOBALS["isbn"]))
                echo "ISBN: " . $GLOBALS["isbn"];
            echo "<br/>";
        } else {
            echo "Book not available.";
        }
    ?>
</p>
</div>
<div id="infodivide"></div>
<div id="voertmans" class="bookstore">
    <h1>Voertman's</h1>
    <span id="loading" hidden>Scraping data...</span>
    <p>
    </p>
</div>
<div id="unt" class="bookstore">
    <h1>UNT Bookstore</h1>
    <p>
        <?php if(isset($GLOBALS["priceNewUnt"])) : ?>
            New Price - $<?=$GLOBALS["priceNewUnt"];?>
        <?php endif;?>
    </p>
</div>
<div id="chegg" class="bookstore">
    <h1>Chegg</h1>
</div>
<div id="amazon" class="bookstore">
    <h1>Amazon</h1>
</div>
</div>
</div>
<div id = "footer">
</div>
</body>
</html>
<script type="text/javascript">
    $("#loading").show();
    $.ajax({

```

```

        type: "POST",
        url: "../python/untextbookfinder/processForm.php",
        success: function() {
            alert("Finished obtaining Voertman's data.");
            var bookNew = <?php echo
json_encode($_SESSION["bookNewVoert"]);?> + "<br/>";
            var bookRental = <?php echo
json_encode($_SESSION["bookRentalVoert"]);?>;
            $("#loading").hide();
            $("#voertmans p").after(bookNew.trim(), bookRental.trim());
        }
    });
</script>

```

UNT Query Database script

```

<?php
# queries our database from Parse.com
require '../parseConnect.php';
use Parse\ParseObject;
use Parse\ParseQuery;
use Parse\ParseException;

function queryDataUnt($department, $course, $section = "001") {

    $query = new ParseQuery("Book");
    $query->startsWith("department", $department);
    $query->equalTo("course", $course);
    $query->startsWith("section", $section);
    $query->limit(1);

    try {
        $result = $query->find();
        if(isset($result[0])) {
            $object = $result[0];
            $GLOBALS['isbn'] = $object->get("isbn");
            $GLOBALS['name'] = $object->get("name");
            $GLOBALS['priceNewUnt'] = $object->get("priceNew");
        }
    } catch (ParseException $ex) {
        echo "Book not found in database.";
    }
}

```